

Title (en)  
SYSTEMS AND METHODS FOR SECURE COMMUNICATIONS OVER BROADBAND DATALINKS

Title (de)  
SYSTEME UND VERFAHREN FÜR SICHERE KOMMUNIKATIONEN ÜBER BREITBANDIGE DATENVERBINDUNGEN

Title (fr)  
SYSTÈMES ET PROCÉDÉS PERMETTANT DE SÉCURISER DES COMMUNICATIONS SUR DES LIAISONS DE DONNÉES À LARGE BANDE

Publication  
**EP 3240256 B1 20200603 (EN)**

Application  
**EP 17168567 A 20170427**

Priority

- US 201662329728 P 20160429
- US 201715498415 A 20170426

Abstract (en)  
[origin: EP3240256A1] Systems and methods for secure communications over broadband datalinks are provided. In certain implementations, a system for providing secure communications through a communication link includes a first communication unit that includes a processing unit that is configured to execute code that causes the first communication unit to verify messages with a firewall as they are received by the first communication unit; remove encapsulation data that encapsulates a message received from a second communication unit; check a digital signature appended to the message received from a second communication unit through a non-secure communication link; perform an integrity check on the message; and when the message is verified through the digital signature and the integrity check, process the message; wherein removal of the encapsulation data and implementation of the firewall is in a first partition and performance of the integrity check and verification of the digital signature is in a second partition.

IPC 8 full level  
**H04L 29/06** (2006.01); **H04B 7/185** (2006.01); **H04L 1/00** (2006.01); **H04L 29/08** (2006.01); **G08G 5/00** (2006.01); **H04W 12/08** (2009.01); **H04W 12/10** (2009.01); **H04W 84/06** (2009.01)

CPC (source: CN EP US)  
**H04B 7/18506** (2013.01 - EP US); **H04L 1/0061** (2013.01 - EP US); **H04L 9/3247** (2013.01 - CN US); **H04L 12/2801** (2013.01 - US); **H04L 12/4633** (2013.01 - US); **H04L 63/0227** (2013.01 - US); **H04L 63/0236** (2013.01 - EP US); **H04L 63/123** (2013.01 - CN EP US); **H04L 63/18** (2013.01 - US); **H04L 67/12** (2013.01 - EP US); **H04L 69/16** (2013.01 - EP US); **H04L 69/321** (2013.01 - EP US); **H04W 12/088** (2021.01 - EP US); **H04W 12/106** (2021.01 - EP US); **G08G 5/0013** (2013.01 - EP US); **H04L 63/126** (2013.01 - EP US); **H04W 84/06** (2013.01 - EP US)

Cited by  
FR3093879A1; EP4167118A1; FR3076011A1; US11695694B2; US11025591B2; WO2020187689A1; WO2019121492A1

Designated contracting state (EPC)  
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**EP 17168567 A 20170427**; CN 201710300963 A 20170502; US 201715498415 A 20170426